



Atty. Docket No. 047894-0104  
U.S. Appln. No. 10/717,518

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Gert Kim JENSEN  
Title: Campanula Plant Named 'PKMh03' (as amended)  
Appl. No.: 10/717,518  
Filing Date: November 21, 2003  
Examiner: Anne Marie GRUNBERG  
Art Unit: 1661

**SUBMISSION OF SUBSTITUTE SPECIFICATION  
UNDER 37 CFR 1.125 and MPEP § 608.01(q)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicant hereby submits a Substitute Specification in the above-captioned application. Pursuant to 37 CFR 1.125 and MPEP § 608.01(q), Applicant certifies that the Substitute Specification contains no new matter.

Respectfully submitted,

Date: November 23, 2004

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## CAMPANULA PLANT NAMED 'PKMh03'

Latin name of genus and species of the plant claimed:

*Campanula X haylodgensis hort*

Variety denomination:

5 PKMh03

### BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Campanula* plant, botanically known as *Campanula X haylodgensishort*, commonly known as Bellflower, and hereinafter referred to by the name 'PKMh03'.

10 The new *Campanula*, 'PKMh03', is a product of a planned mutant selection and monitoring program conducted by the Inventor, Gert K. Jensen, in Søhus, Denmark. The new *Campanula* originated from a mutation found in 2001 by the Inventor in a production batch of *Campanula X haylodgensis* 'Marion Fischer' (unpatented). The Inventor selected the new *Campanula* cultivar from  
15 the progeny of the above cross in 2001 on the basis of its compact and freely flowering habit. Plants of the new *Campanula* are more upright, compact, and more freely flowering than plants of 'Marion Fischer'.

Asexual reproduction of the new cultivar by terminal cuttings taken and propagated at in Søhus, Denmark, has shown that the unique features of this  
20 new *Campanula* are stable and reproduce true to type in many successive generations.

## SUMMARY OF THE INVENTION

Plants of the cultivar 'PKMh03' have not been observed under all possible environmental conditions. The phenotype may vary with variations in environment such as temperature, light intensity, day length, and fertility level without, however, any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'PKMh03'. These characteristics in combination distinguish 'PKMh03' as a new and distinct cultivar:

1. Upright, tall plant habit;
2. Dense and bushy plant form, mainly due to more upright, stiff stems;
3. Vigorous growth habit, and less need for chemical growth retardation;
4. Large upright white flowers;
5. Greater number of flowers per plant; and
6. No need for vernalization.

Side-by-side comparisons between the instant plant and the parental cultivar, 'Marion Fischer', were conducted by the Inventor in Stige, Denmark. Plants of 'PKMh03' differ from the cultivar 'Marion Fischer' in the following characteristics:

- 5     1. Plants of 'PKMh03' have large, upright, single, campanulate flowers.
2. Plants of 'PKMh03' have shorter internodes, petioles and leaves and more upright growth than plants of the cultivar 'Marion Fischer'.
- 10    3. Plants of 'PKMh03' have shorter flower peduncles than plants of the cultivar 'Marion Fischer'.
4. Plants of 'PKMh03' are shorter and more compact than the plants of the cultivar 'Marion Fischer'.
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5. Plants of 'PKMh03' have more flowers per plant and larger flowers than the plants of the cultivar 'Marion Fischer'.

#### BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying photographic drawings illustrate the overall  
20     appearance of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed

botanical description, which more accurately describe the actual colors of  
'PKMh03'. In the photographic drawings, the instant plant is labelled by its  
commercial name, 'White Fairy'.

The first photographic drawing shows a close-up of the side view of a  
5 typical potted flowering plant of 'PKMh03'. The second photographic drawing  
shows a side perspective view of a typical flowering plant of 'PKMh03' compared  
with parental cultivar 'Marion Fischer', as grown in 10.5 cm pots. The third  
photographic drawing shows a close-up view of typical flowering racemes of  
'PKMh03' in comparison with 'Marion Fischer'.

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#### DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal  
Horticultural Society (RHS) Colour Chart, 4<sup>th</sup> edition, where general terms of  
ordinary dictionary significance are used. Plants were grown under greenhouse  
conditions. The plants described were about 14 weeks old after cutting, pinched  
15 twice, but not retarded, as grown in 10.5 cm pots. For commercial production,  
some retardation will be required, but less retardation than for parent cultivar  
'Marion Fischer'.

Parentage: Mutant of *Campanula X haylodgensis* cultivar 'Marion Fischer'  
20 (unpatented)

Propagation:

Type cutting. Terminal vegetative cuttings.

Time to initiate roots: About 10 to 14 days at 18 to 21 C in tunnels in a greenhouse.

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Root description: Fine, well branched.

Plant description:

Form: Perennial plant with upright plant habit. Campanulate flowers in racemes.

10 Freely branching with lateral branches forming at every node.

Crop time: After rooting, about 14 weeks are required to produce finished flowering plants in 10.5 cm pots.

15 Plant height (soil level to top of plant plane): About 20 cm.

Internode length: 7-10 mm.

Vigor: Vigorous growth rate

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Foliage description: Basal leaves single, palmate venation. Length: 15-20 mm.

Width: 15-20 mm. Shape: Cordate. Apex: Acuminate. Base: Rounded. Margin: broadly dentate. Texture: smooth, glabrous. Upper leaves: Lanceolate, sessile.

Length: 22 mm. Width: 7 mm. Color: Young foliage, upper and lower surfaces:

RHS 138A, green. Mature foliage, upper and lower surfaces: RHS 138 A and RHS 138 B, respectively. Venation color 138A.

Petiole: Length: 15-20 mm; Diameter(width): 2 mm; RHS 138 B.

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Flower description:

Flower arrangement and shape: Upright, single flowers in racemes; campanulate flowers with small star shaped calyx.

10 Natural flowering season: Continuous throughout the spring and summer.

Season can be extended by vernalization and long day treatments.

Flower longevity on the plant: Longevity of individual flowers is highly dependent on temperature and light conditions. Flowers persistent.

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Inflorescence size: Length: about 17 cm.

Flowers: 5, Upright. Length: about 14 mm. Diameter(width): about 25 mm.

Triangular, acute petal lobes: 9 mm long and 9 mm wide. Corolla color: upper

20 and lower surfaces, whiter than RHS 155 A.

Peduncle: Strength: moderately strong. Length: about 17 mm. Diameter: about .5 mm. Color: RHS 138 B, light green

Reproductive Organs:

Stamen: 5, linear anthers initially fused; RHS 2 D

Pollen: Average amount; RHS 2 D

Pistil: 1, conspicuously tripartite, length: 10 mm; RHS 4 D

5 Stigma: Conspicuously tripartite; RHS 4 D

Style: Length: 8 mm; RHS 4 D

Ovary: 140 D

10 Seeds: 5, length: about 2 mm. Diameter: about 1 mm; Texture: smooth  
and glabrous; color when immature – 140 D

Fruit: Capsule type

Disease Resistance: Good

15 Disease Susceptibility: None observed.

Weather tolerance: Plants of the new *Campanula* have exhibited good  
tolerance to drought, rain, and wind; low temperature  
resistant to - 15C.

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